

# Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>09/915,914</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 ____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 ____ Use of <220>	Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

OIEP

## RAW SEQUENCE LISTING

DATE: 08/07/2001

PATENT APPLICATION: US/09/915,914

TIME: 13:53:33

Input Set : A:\AM-00105.P.1.1.ST25.txt

Output Set: N:\CRF3\08072001\I915914.raw

PP. 1-5

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Divita, Gilles  
 4 Fernandez, Joseph  
 5 Heitz, Frederic  
 6 Morris, May  
 7 Mery, Jean  
 8 Archdeacon, John  
 9 Horndorp, Kyle

11 <120> TITLE OF INVENTION: PEPTIDE-MEDIATED DELIVERY OF MOLECULES INTO CELLS  
 13 <130> FILE REFERENCE: AM-00105.P.1.1  
 15 <140> CURRENT APPLICATION NUMBER: US/09/915,914  
 15 <141> CURRENT FILING DATE: 2001-07-26  
 15 <150> PRIOR APPLICATION NUMBER: US 60/221,932  
 16 <151> PRIOR FILING DATE: 2000-07-31  
 18 <160> NUMBER OF SEQ ID NOS: 43  
 20 <170> SOFTWARE: PatentIn version 3.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 21  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: synthetic construct  
 27 <400> SEQUENCE: 1  
 29 Tyr Gly Phe Lys Lys Arg Arg Trp Ser Gln Pro Lys Glu Thr Trp Glu  
 30 1 5 10 15  
 32 Thr Trp Trp Thr Glu  
 33 20  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 18  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: synthetic construct  
 40 <400> SEQUENCE: 2  
 42 Tyr Gly Phe Lys Lys Arg Arg Gln Pro Thr Trp Trp Glu Thr Trp Trp  
 43 1 5 10 15  
 45 Thr Glu  
 48 <210> SEQ ID NO: 3  
 49 <211> LENGTH: 17  
 50 <212> TYPE: PRT  
 51 <213> ORGANISM: synthetic construct  
 53 <400> SEQUENCE: 3  
 55 Tyr Gly Phe Lys Lys Arg Arg Gln Thr Trp Trp Glu Thr Trp Thr  
 56 1 5 10 15  
 58 Glu  
 61 <210> SEQ ID NO: 4  
 62 <211> LENGTH: 19  
 63 <212> TYPE: PRT  
 64 <213> ORGANISM: synthetic construct  
 66 <400> SEQUENCE: 4  
 68 Tyr Gly Phe Lys Lys Phe Arg Lys Pro Trp Thr Trp Trp Glu Thr Trp  
 69 1 5 10 15

invited response -  
 see item 10 on Euro summary sheet  
 (global error)

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Input Set : A:\AM-00105.P.1.1.ST25.txt

Output Set: N:\CRF3\08072001\I915914.raw

```

71 Trp Thr Glu
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 19
76 <212> TYPE: PRT
77 <213> ORGANISM: synthetic construct
79 <400> SEQUENCE: 5
81 Tyr Gly Phe Lys Lys Phe Arg Lys Pro Trp Thr Trp Trp Glu Thr Trp
82 1 5 10 15
84 Trp Thr Glu
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 19
89 <212> TYPE: PRT
90 <213> ORGANISM: synthetic construct
92 <400> SEQUENCE: 6
94 Lys Lys Lys Arg Lys Val Lys Pro Glu Thr Trp Trp Glu Thr Trp Trp
95 1 5 10 15
97 Glu Thr Val
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 21
102 <212> TYPE: PRT
103 <213> ORGANISM: synthetic construct
105 <400> SEQUENCE: 7
107 Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys
108 1 5 10 15
110 Lys Lys Arg Lys Val
111 20
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 20
115 <212> TYPE: PRT
116 <213> ORGANISM: synthetic construct
118 <400> SEQUENCE: 8
120 Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys
121 1 5 10 15
123 Lys Arg Lys Val
124 20
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 20
128 <212> TYPE: PRT
129 <213> ORGANISM: synthetic construct
131 <400> SEQUENCE: 9
133 Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Ala Ser Gln Pro Lys
134 1 5 10 15
136 Lys Arg Lys Val
137 20
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 21
141 <212> TYPE: PRT
142 <213> ORGANISM: synthetic construct
144 <400> SEQUENCE: 10

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## RAW SEQUENCE LISTING

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Input Set : A:\AM-00105.P.1.1.ST25.txt

Output Set: N:\CRF3\08072001\I915914.raw

146 Lys Glu Thr Trp Trp Glu Thr Trp Trp Glu Thr Trp Ser Gln Pro Lys  
 147 1 5 10 15  
 149 Lys Lys Arg Lys Val  
 150 20  
 152 <210> SEQ ID NO: 11  
 153 <211> LENGTH: 19  
 154 <212> TYPE: PRT  
 155 <213> ORGANISM: synthetic construct  
 157 <400> SEQUENCE: 11  
 159 Lys Glu Thr Trp Trp Glu Thr Trp Thr Trp Ser Gln Pro Lys Lys Lys  
 160 1 5 10 15  
 162 Arg Lys Val  
 165 <210> SEQ ID NO: 12  
 166 <211> LENGTH: 19  
 167 <212> TYPE: PRT  
 168 <213> ORGANISM: synthetic construct  
 170 <400> SEQUENCE: 12  
 172 Lys Trp Trp Glu Thr Trp Trp Glu Thr Trp Ser Gln Pro Lys Lys Lys  
 173 1 5 10 15  
 175 Arg Lys Val  
 178 <210> SEQ ID NO: 13  
 179 <211> LENGTH: 23  
 180 <212> TYPE: PRT  
 181 <213> ORGANISM: synthetic construct  
 183 <220> FEATURE:  
 W--> 184 <221> NAME/KEY: X  
 185 <222> LOCATION: (1)..(23)  
 186 <223> OTHER INFORMATION: X at residues 1, 2, 3, 8, 9, 12, 13 and 23 can be any amino  
 acid  
 187 or no amino acid  
 190 <400> SEQUENCE: 13  
 W--> 192 Xaa Xaa Xaa Lys Lys Arg Arg Xaa Xaa Xaa Xaa Xaa Xaa Thr Trp Xaa  
 193 1 5 10 15  
 W--> 195 Glu Thr Trp Trp Xaa Xaa Xaa  
 196 20  
 198 <210> SEQ ID NO: 14  
 199 <211> LENGTH: 22  
 200 <212> TYPE: PRT  
 201 <213> ORGANISM: synthetic construct  
 203 <220> FEATURE:  
 W--> 204 <221> NAME/KEY: X  
 205 <222> LOCATION: (8)..(16)  
 206 <223> OTHER INFORMATION: X at residues 8, 9, 11, 12, 13, 16 can be any amino acid or  
 no am  
 207 ino aci acid  
 210 <400> SEQUENCE: 14  
 W--> 212 Tyr Gly Phe Lys Lys Arg Arg Xaa Xaa Gln Xaa Xaa Xaa Thr Trp Xaa  
 213 1 5 10 15  
 215 Glu Thr Trp Trp Thr Glu  
 216 20  
 218 <210> SEQ ID NO: 15

*all Xaa's must be explained**what about Xaa's at locations  
10-11, 16, 21-22?*

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Input Set : A:\AM-00105.P.1.1.ST25.txt

Output Set: N:\CRF3\08072001\I915914.raw

219 <211> LENGTH: 21  
 220 <212> TYPE: PRT  
 221 <213> ORGANISM: synthetic construct  
 223 <220> FEATURE:  
 W--> 224 <221> NAME/KEY: X  
 225 <222> LOCATION: (2)..(21)  
 226 <223> OTHER INFORMATION: X at residue 2, 3, 10, 11, 12, 18 and 21 can be any amino acid or no amino acid  
 227 r no amino acid  
 230 <400> SEQUENCE: 15  
 W--> 232 Lys Xaa Xaa Trp Trp Glu Thr Trp Trp Xaa Xaa Xaa Ser Gln Pro Lys  
 233 1 5 10 15  
 W--> 235 Lys Xaa Arg Lys Xaa  
 236 20  
 238 <210> SEQ ID NO: 16  
 239 <211> LENGTH: 21  
 240 <212> TYPE: PRT  
 241 <213> ORGANISM: synthetic construct  
 243 <220> FEATURE:  
 W--> 244 <221> NAME/KEY: X  
 245 <222> LOCATION: (10)..(11)  
 246 <223> OTHER INFORMATION: X at residue 10 and 11 can be any amino acid or no amino acid  
 249 <400> SEQUENCE: 16  
 W--> 251 Lys Glu Thr Trp Trp Glu Thr Trp Trp Xaa Xaa Trp Ser Gln Pro Lys  
 252 1 5 10 15  
 254 Lys Lys Arg Lys Val  
 255 20  
 257 <210> SEQ ID NO: 17  
 258 <211> LENGTH: 20  
 259 <212> TYPE: PRT  
 260 <213> ORGANISM: synthetic construct  
 262 <220> FEATURE:  
 W--> 263 <221> NAME/KEY: X  
 264 <222> LOCATION: (6)..(20)  
 265 <223> OTHER INFORMATION: X at residue 6 and 20 can be any amino acid or no amino acid  
 268 <400> SEQUENCE: 17  
 W--> 270 Tyr Gly Phe Lys Lys Xaa Arg Arg Pro Trp Thr Trp Trp Glu Thr Trp  
 271 1 5 10 15  
 W--> 273 Trp Thr Glu Xaa  
 274 20  
 276 <210> SEQ ID NO: 18  
 277 <211> LENGTH: 5  
 278 <212> TYPE: PRT  
 279 <213> ORGANISM: synthetic construct  
 281 <220> FEATURE:  
 W--> 282 <221> NAME/KEY: X  
 283 <222> LOCATION: (3)..(4)  
 284 <223> OTHER INFORMATION: X at residue 3 and 4 can be any amino acid or no amino acid  
 287 <400> SEQUENCE: 18  
 W--> 289 Trp Trp Xaa Xaa Trp

## RAW SEQUENCE LISTING

DATE: 08/07/2001

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TIME: 13:53:33

Input Set : A:\AM-00105.P.1.1.ST25.txt

Output Set: N:\CRF3\08072001\I915914.raw

```

290 1          5
292 <210> SEQ ID NO: 19
293 <211> LENGTH: 27
294 <212> TYPE: PRT
295 <213> ORGANISM: synthetic construct
297 <400> SEQUENCE: 19
299 Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly
300 1          5          10          15
302 Ala Trp Ser Gln Pro Lys Ser Lys Arg Lys Val
303          20          25
305 <210> SEQ ID NO: 20
306 <211> LENGTH: 34
307 <212> TYPE: DNA
308 <213> ORGANISM: Homo sapiens
310 <400> SEQUENCE: 20
311 cgggatcccg atgtctacgg aactcttctc atcc
314 <210> SEQ ID NO: 21
315 <211> LENGTH: 34
316 <212> TYPE: DNA
317 <213> ORGANISM: Homo sapiens
319 <400> SEQUENCE: 21
320 ccccatgggg tcatgggctc atgtccttca ccag
323 <210> SEQ ID NO: 22
324 <211> LENGTH: 17
325 <212> TYPE: PRT
326 <213> ORGANISM: Caiman crocodilus
328 <400> SEQUENCE: 22
330 Met Gly Leu Gly Leu His Leu Leu Val Leu Ala Ala Ala Leu Gln Gly
331 1          5          10          15
333 Ala
336 <210> SEQ ID NO: 23
337 <211> LENGTH: 7
338 <212> TYPE: PRT
339 <213> ORGANISM: Simian virus 40
341 <400> SEQUENCE: 23
343 Pro Lys Lys Lys Arg Lys Val
344 1          5
346 <210> SEQ ID NO: 24
347 <211> LENGTH: 4
348 <212> TYPE: PRT
349 <213> ORGANISM: synthetic construct
351 <400> SEQUENCE: 24
353 Trp Ser Gln Pro
354 1
356 <210> SEQ ID NO: 25
357 <211> LENGTH: 27
358 <212> TYPE: PRT
359 <213> ORGANISM: synthetic construct
361 <400> SEQUENCE: 25

```

*Please correct this error in subsequent sequences.*

Use of *n* and/or *Xaa* has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using *n* or *Xaa*.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/915,914

DATE: 08/07/2001

TIME: 13:53:34

Input Set : A:\AM-00105.P.1.1.ST25.txt

Output Set: N:\CRF3\08072001\I915914.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:184 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13  
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:204 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:224 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15  
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:244 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16  
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:263 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17  
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:282 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:427 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30